

July 15, 2015

Tom Moe  
USS Corporation  
P.O. Box 417  
Mountain Iron, MN 55768

RE: Project: NPDES-TB Wk1  
Pace Project No.: 1249439

Dear Tom Moe:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Melisa M Woods for  
Heather R Zika  
heather.zika@pacelabs.com  
Project Manager

Enclosures

cc: Terri Sabetti, Northeast Technical



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## CERTIFICATIONS

Project: NPDES-TB Wk1

Pace Project No.: 1249439

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414  
A2LA Certification #: 2926.01  
Alaska Certification #: UST-078  
Alaska Certification #MN00064  
Alabama Certification #40770  
Arizona Certification #: AZ-0014  
Arkansas Certification #: 88-0680  
California Certification #: 01155CA  
Colorado Certification #Pace  
Connecticut Certification #: PH-0256  
EPA Region 8 Certification #: 8TMS-L  
Florida/NELAP Certification #: E87605  
Guam Certification #:14-008r  
Georgia Certification #: 959  
Georgia EPD #: Pace  
Idaho Certification #: MN00064  
Hawaii Certification #MN00064  
Illinois Certification #: 200011  
Indiana Certification#C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky Dept of Envi. Protection - DW #90062  
Kentucky Dept of Envi. Protection - WW #:90062  
Louisiana DEQ Certification #: 3086  
Louisiana DHH #: LA140001  
Maine Certification #: 2013011  
Maryland Certification #: 322  
Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137  
Mississippi Certification #: Pace  
Montana Certification #: MT0092  
Nevada Certification #: MN\_00064  
Nebraska Certification #: Pace  
New Jersey Certification #: MN-002  
New York Certification #: 11647  
North Carolina Certification #: 530  
North Carolina State Public Health #: 27700  
North Dakota Certification #: R-036  
Ohio EPA #: 4150  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: 9507  
Oregon Certification #: MN200001  
Oregon Certification #: MN300001  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification  
Saipan (CNMI) #:MP0003  
South Carolina #:74003001  
Texas Certification #: T104704192  
Tennessee Certification #: 02818  
Utah Certification #: MN000642013-4  
Virginia DGS Certification #: 251  
Virginia/VELAP Certification #: Pace  
Washington Certification #: C486  
West Virginia Certification #: 382  
West Virginia DHHR #:9952C  
Wisconsin Certification #: 999407970

### Virginia Minnesota Certification ID's

315 Chestnut Street, Virginia, MN 55792  
Alaska Certification #: UST-078  
Alaska Certification #MN01084  
Arizona Department of Health Certification #AZ0785

Minnesota Dept of Health Certification #: 027-137-445  
North Dakota Certification: # R-203  
Wisconsin DNR Certification # : 998027470  
WA Department of Ecology Lab ID# C1007

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## SAMPLE SUMMARY

Project: NPDES-TB Wk1

Pace Project No.: 1249439

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1249439001	SD 001 (Seep 020)	Water	07/01/15 11:40	07/01/15 14:50

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## SAMPLE ANALYTE COUNT

Project: NPDES-TB Wk1

Pace Project No.: 1249439

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1249439001	SD 001 (Seep 020)	EPA 1664 TPH	AAD	1	PASI-M
		USGS I-3765	BEM	1	PASI-V
		EPA 300.0	DMB	1	PASI-V

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## ANALYTICAL RESULTS

Project: NPDES-TB Wk1

Pace Project No.: 1249439

Sample: SD 001 (Seep 020)      Lab ID: 1249439001      Collected: 07/01/15 11:40      Received: 07/01/15 14:50      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>1664 SGT-HEM, TPH</b> Analytical Method: EPA 1664 TPH									
Total Petroleum Hydrocarbons	<b>0.90J</b>	mg/L	5.0	0.38	1		07/08/15 14:48		B
<b>USGS I-3765 TSS</b> Analytical Method: USGS I-3765									
Total Suspended Solids	<b>3.2</b>	mg/L	1.0	1.0	1		07/07/15 10:29		
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>1010</b>	mg/L	20.0	0.89	10		07/09/15 03:02	14808-79-8	

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## QUALITY CONTROL DATA

Project: NPDES-TB Wk1

Pace Project No.: 1249439

QC Batch: WET/42786

Analysis Method: EPA 1664 TPH

QC Batch Method: EPA 1664 TPH

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 1249439001

METHOD BLANK: 2015030

Matrix: Water

Associated Lab Samples: 1249439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	1.3J	5.0	07/08/15 14:05	

LABORATORY CONTROL SAMPLE: 2015031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	14.2	71	64-132	

MATRIX SPIKE SAMPLE: 2016797

Parameter	Units	1249439001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	0.90J	20.4	14.9	69	64-132	

SAMPLE DUPLICATE: 2016798

Parameter	Units	1249439001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	0.90J	0.50J		34	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALITY CONTROL DATA

Project: NPDES-TB Wk1

Pace Project No.: 1249439

QC Batch: WET/18983

Analysis Method: USGS I-3765

QC Batch Method: USGS I-3765

Analysis Description: USGS I-3765 Total Suspended Solids

Associated Lab Samples: 1249439001

METHOD BLANK: 225527

Matrix: Water

Associated Lab Samples: 1249439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<1.0	1.0	07/07/15 10:29	

LABORATORY CONTROL SAMPLE: 225528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	239	214	90	80-120	

SAMPLE DUPLICATE: 225529

Parameter	Units	1249482006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	224	244	9	10	

SAMPLE DUPLICATE: 225530

Parameter	Units	1249479003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	144	154	7	10	

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## QUALITY CONTROL DATA

Project: NPDES-TB Wk1

Pace Project No.: 1249439

QC Batch: WETA/12646

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 1249439001

METHOD BLANK: 226121

Matrix: Water

Associated Lab Samples: 1249439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.089	2.0	07/08/15 21:42	

LABORATORY CONTROL SAMPLE: 226122

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	50	49.4	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 226123 226124

Parameter	Units	1249598001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	15.6	50.2	50.2	67.1	67.1	102	103	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 226132 226133

Parameter	Units	1249438002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	405	251	251	654	654	99	99	90-110	0	20	

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## QUALIFIERS

Project: NPDES-TB Wk1

Pace Project No.: 1249439

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

PASI-V Pace Analytical Services - Virginia

### BATCH QUALIFIERS

Batch: WET/42786

[BE] Batch extracted by solid phase extraction (SPE).

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NPDES-TB Wk1


Pace Project No.: 1249439

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1249439001	SD 001 (Seep 020)	EPA 1664 TPH	WET/42786		
1249439001	SD 001 (Seep 020)	USGS I-3765	WET/18983		
1249439001	SD 001 (Seep 020)	EPA 300.0	WETA/12646		

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[illegible]

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 23Feb2015 Page 1 of 1
	Document No.: F-VM-C-001-Rev.09	Issuing Authority: Pace Virginia, Minnesota Quality Office

**Sample Condition  
Upon Receipt**

Client Name:

WSS Corp

Project #:

**WO# : 1249439**



Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client  
☐ Commercial ☐ Pace ☐ Other: \_\_\_\_\_

Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☒ No

Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: Harper

Temp Blank? ☒ Yes ☐ No

Thermometer Used: ☒ 140792808

Type of Ice: ☐ Wet ☐ Blue ☐ None

☒ Samples on ice, cooling process has begun

Cooler Temp Read °C: 5-3 Cooler Temp Corrected °C: 5-6

Biological Tissue Frozen? ☐ Yes ☐ No ☒ NA

Temp should be above freezing to 6°C Correction Factor: 10.3

Date and Initials of Person Examining Contents: 7/1/15 CP

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved containers.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>		
All containers needing acid/base preservation will be checked and documented in the pH logbook.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	See pH log for results and additional preservation documentation
Headspace in Methyl Mercury Container	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required? ☐ Yes ☐ No

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

FECAL WAIVER ON FILE Y N

TEMPERATURE WAIVER ON FILE Y N

Project Manager Review:

M. L. Woods

Date:

7/2/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)